Getting Started



Panasonic.

Personal Computer

OPERATING INSTRUCTIONS

Model No. CF-M34 Series

TO	UCHBOOK
2000 XF	
	[Additional Manual]
	Reference Manual
	d can be accessed on your computer. Refer on how to access the Reference Manual.

In this manual, descriptions are given using illustrations not featuring the hand strap for convenience of explanation.

Contents

Getti	na	Sta	rted

Read Me First..... First-time Operation

Reference Manual

- Key Combinations
 LED Indicators

Operation

Starting Up/Shutting Down	14
Touch Pad (Basic Operation)	
Reference Manual	18

Reference Manual

- Touch Pad (Advanced)
- Touchscreen
- Standby/Hibernation **Functions**
- Security Measures
- . Computing on the . LAN
- Battery Power
- · PC Cards

- * RAM Module
- · Port Replicator
- · External Display
- . USB Davices
- Mødem

- Accessories
- · Hard Disk Drive
- · Setup Utility

Troubleshooting

List of Error Codes	19
Dealing with Problems (Summary)	ma. 7.7
Reinstalling Software	24

Reference Manual

- Technical Information
- . List of Error Codes
- . DMI Viewer
- . Dealing with Problems (Advanced)

Annendix

pperidix	
LIMITED USE LICENSE AGREEMENT	.26
Names and Functions of Parts	.28
Specifications	.29
LIMITED WARRANTY	.30

Model No.*	Dealer's Name	
Serial No.		_
or		
Code No.	Dealer's Address	

Introduction

Thank you for purchasing the Panasonic computer. Read the operating instructions thoroughly for proper operation of your new computer.

Illustrations in this Manual

NOTE: **NOTE** provides a useful fact or helpful information.

CAUTION: CAUTION indicates a condition that may result in minor or moderate injury.

WARNING: WARNING indicates a hazard that may result in moderate or serious injury.

[Start]-[Run]: This illustration means to click [Start], then to click [Run].

(For some applications, you may need to double-click.)

Enter: This illustration means to press the [Enter] key.

Fn + F5: This illustration means to press and hold the [Fn] key, then press the [F5] key.

Windows 2000 : Information for Microsoft® Windows® 2000 Professional users.

Windows XP: Information for Microsoft® Windows® XP Professional users.

Where to go for referred information.

Reference: This illustration means to refer to the Reference Manual, which is available on your computer.

Refer to page 18 on how to access this manual.

- Some of the illustrations in this manual may differ slightly in shape from the actual items in order to make the explanation easier to understand.
- If the user has logged on without administrator authority, some functions may not be executable, and some screens may be not displayed as shown in this manual. If this happens, log on with Administrator authority to enable these functions.

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^{*} For the Model No., insert the 12 digit number (for example, CF-M34RHFZQM) located on the bottom of the computer.

Read Me First

For U.S.A.

Federal Communications Commission Radio Frequency Interference Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the Panasonic Service Center or an experienced radio/TV technician for help.

Warning

To assure continued compliance, use only shielded interface cables when connecting to a computer or peripheral. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC RF Exposure Warning: This computer is provided with PC Card slots that could be used with wireless transmitter(s), which will be specifically recommended, when they become available. Other third-party wireless transmitter(s) have not been RF exposure evaluated for use with this computer and may not comply with FCC RF exposure requirements.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: Matsushita Electric Corporation of America

One Panasonic Way Secaucus, NJ 07094

Tel No:1-800-LAPTOP-5 (1-800-527-8675)

FCC Regulation Notice for modem This equipment contains a FCC approved modem.

Manufacturer of modem: AMBIT Microsystems Corporation Model No. T60M250.02

Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

 This equipment complies with Part 68 of the FCC rules. On the computer is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If required, this information must be provided to the telephone company.

- 2. An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant. See Installation Instructions for details.
- 3. The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all area, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.
- 4. If your telephone equipment cause harm to the telephone network, the telephone company will notify you in advice that temporary discontinuance of service may be required. But if advice notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
- 5. The telephone company may take changes in it's facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.
- 6. If trouble is experienced with this equipment, for repair or warranty information, please contact Matsushita Electric Corporation of America at DIAL TOLL FREE 1-800-LAPTOP5 (1-800-527-8675). If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.
- 7. There are no user serviceable parts contained in this equipment.
- This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.
- 9. The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entry, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. In order to program this information into your fax software, you should refer to the manual of the Fax software being used.
- 10.According to the FCC's electrical safety advisory, we recommend that you may install an AC surge arrestor in the AC outlet to which this equipment is connected. Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources and that this is a major nationwide problem.

"Caution: To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord."

"ATTENTION: Pour réduire le risque d'incendie, utiliser uniquement des conducteurs de télécommunications 26 AWG ou de section supérieure."

Notice for the products using LCD

This product uses one or more fluorescent lamps containing a small amount of mercury. It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: http://www.eiae.org/

Read Me First

For Canada

Industry Canada (IC) Notice for modem

This equipment contains an Industry Canada approved modem unit. The Industry Canada label is affixed on the modem unit.

EQUIPMENT ATTACHMENT LIMITATIONS

"NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas. Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate."

"NOTICE: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5."

REN: See bottom of the computer

RESTRICTIONS CONCERNANT LE RACCORDEMENT DE MATÉRIEL

"AVIS: L'étiquette d'Industrie Canada identifie le matériel homologué. Cette étiquette certifie que le matériel est conforme aux normes de protection, d'exploitation et de sécurité des réseaux de télécommunications, comme le prescrivent les documents concernant les exigences techniques relatives au matériel terminal. Le Ministère n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'entreprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée de raccordement. L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empêche pas la dégradation du service dans certaines situations.

Les réparations de matériel homologué doivent être coordonnées par un représentant désigné par le fournisseur. L'entreprise de télécommunications peut demander à l'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'énergie électrique, des lignes téléphoniques et des canalisations d'eau métalliques, s'il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales. Avertissement: L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à un service d'inspection des installations électriques, ou à un électricien, selon le cas."

"AVIS: L'indice d'équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface. La terminaison d'une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de touts les dispositifs n'excède pas 5."

IES: Voir sous le fond de l'ordinateur

Important Safety Instructions / Importantes Mesures De Sécurité

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- 1. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- 2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of the leak.
- 4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

Certaines mesures de sécurité doivent être prises pendant l'utilisation de matérial téléphonique afin de réduire les risques d'incendie, de choc électrique et de blessures. En voici quelquesunes:

- 1. Ne pas utiliser l'appareil près de l'eau, p.ex., près d'une baignoire, d'un lavabo, d'un évier de cuisine, d'un bac à laver, dans un sous-sol humide ou près d'une piscine.
- 2. Éviter d'utiliser le téléphone (sauf s'il s'agit d'un appareil sans fil) pendant un orage électrique. Ceci peut présenter un risque de choc électrique causé par la foudre.
- Ne pas utiliser l'appareil téléphonique pour signaler une fuite de gaz s'il est situé près de la fuite.
- 4. Utiliser seulement le cordon d'alimentation et le type de piles indiqués dans ce manual. Ne pas jeter les piles dans le feu: elles peuvent exploser. Se conformer aux règlements pertinents quant à l'élimination des piles.

CONSERVER CES INSTRUCTIONS

Lithium Battery

Lithium Battery!

This computer contains a lithium battery to enable the date, time, and other data to be stored. The battery should only be exchanged by authorized service personnel.

Warning! A risk of explosion from incorrect installation or misapplication may possibly occur.

Pile au lithium!

Le micro-ordinateur renferme une pile au lithium qui permet de sauvegarder certaines données comme la date et l'heure notamment. Elle ne devra être remplacée que par un technicien qualifié.

Avertissement! Risque d'explosion en cas de non respect de cette mise en garde!

Precautions

The CF-M34 was developed based on thorough research into the real-world portable computing environments. Exhaustive pursuit of usability and reliability under harsh conditions led to innovations such has the magnesium alloy exterior, vibration damped hard disk drive and floppy disk drive, flexible internal connections. The CF-M34's outstanding engineering has been tested using the stiff MIL-STD- 810E (for vibration and shock) and IP (for dust and water) based procedures.

As with any portable computer device precautions should be taken to avoid any damage. The following usage and handling procedures are recommended.

Before putting the computer away, be sure to wipe off any moisture.



Avoid Radio Frequency Interference

Do not place the computer near a television or radio receiver.



Avoid Magnetic Fields

Keep the computer away from magnets. Data stored on the hard disk may be lost.



Keep Small Objects Away

Do not insert paper clips or other small objects into the computer.



Do Not Disassemble the Computer

Do not attempt to disassemble your computer.



Avoid Excessive Force on the Display

Do not apply excessive downward force on the display when it is completely opened, especially when plugs and/or cables are connected to the rear of the computer.



Avoid low-temperature burns

Avoid more than casual contact with any heat producing area of the notebook computer, power adaptor, and any option or accessory you use with it. Even low heat, if warmer than body temperature, can cause a burn, if the skin is exposed to the heat source for a long enough period of time.

Peripherals

Incorrectly using peripheral devices may lead to a decrease in performance, an increase in temperature and/or damage your computer. For more information on peripheral devices, refer to the Reference Manual.

Cables

Use of an interface cable longer than 3 m (9.84 feet) is not recommended.

Read Me First

Precautions (Battery Pack)

 Care should be exercised with regard to the following in order to avoid the possibility of overheating, fire or damage.



Avoid Heat

Do not throw the battery pack into a fire or expose it to excessive heat.



Keep Articles Away

Do not place the battery pack together with articles such as necklaces or hairpins when carrying or storing.



Do Not Disassemble

Do not insert sharp objects into the battery pack, expose it to bumps or shocks, deform, disassemble, or modify it.



Do Not Short

Do not short the positive (+) and negative (-) contacts.



Avoid Extreme Heat, Cold and Direct Sunlight

Do not charge, use or leave the battery pack for extended periods where it will be exposed to direct sunlight, in a hot place (in car on a sunny day, for example), or in a cold place.



Do Not Use With Any Other Computer

The battery pack is rechargeable and was intended for the specified computer or charger. Do not use it with a computer other than the one for which it was designed.



Do Not Put into a Microwave

Do not put the battery pack into a microwave oven or a pressurized chamber.



Discontinue Use

Should the battery emit an abnormal odor, become hot to the touch, become discolored, change shape, or become in any way different from normal, remove it from the computer or charger and discontinue use.

- Do not touch the terminals on the battery pack. The battery pack may no longer function properly if the contacts are dirty or damaged.
- Do not expose the battery pack to water, or allow it to become wet.

- If the battery pack will not be used for a long period of time (a month or more), charge or discharge (use) the battery pack until the remaining battery level becomes 30% to 40% and store it in a cool, dry place.
- This computer prevents overcharging of the battery by recharging only when the remaining power is less than approx.
 95% of capacity.
- The battery pack is not charged when the computer is first purchased. Be sure to charge it before using it for the first time. When the AC adaptor is connected to the computer, charging begins automatically.
- Should the battery leak and the fluid get into your eyes, do not rub your eyes. Immediately flush your eyes with clear water and see a doctor for medical treatment as soon as possible.

NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence outside of the allowable temperature range (0 °C to 50 °C {32°F to 122 °F})

 Reference "Battery Power". Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions. (Recharging takes longer than usual when the temperature is 10 °C {50 °F} or less.)
- If the temperature is low, the operating time is shortened.
 Only use the computer within the allowable temperature range.
- This computer has a high temperature mode function that prevents the degradation of the battery in high temperature environments. If the high temperature mode is selected in the Setup Utility (Reference "Setup Utility"), a level of maximum capacity in the [High Temperature] mode is below 65%.
- The battery pack is a consumable item. If the amount of time the computer can be run off a particular battery pack becomes dramatically shorter and repeated rechargings do not restore its performance, the battery pack should be replaced with a new one.
- When transporting space batteries inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Always power off the computer when it is not in use.
 Leaving the computer on when the AC adaptor is not connected will exhaust the remaining battery capacity.

When using peripheral devices

Pay strict attention to the following points to avoid damage to the computer, peripheral devices, cables, etc. Also, in addition to following this manual, carefully read the instruction manuals for the peripheral devices being used.

- Connect the devices properly, paying close attention to the condition and position of the connectors.
- If a connection cannot be made easily, do not apply undue force; check once more to confirm the condition and position of the connector (alignment of pins, etc.).
- If the connector has holding screws, fasten the screws firmly.
- Do not carry the computer with cables attached, and do not pull on the cables forcefully.

Saving Data on the Hard Disk

• Do not expose your computer to shock.

Use care when handling your computer, shock may damage your hard disk or make your software applications and data unusable.

Do not power down your computer while software applications are running or hard disk drive indicator (
) is on.

Properly shut Windows* down to avoid problems.

• Save all valuable data to disks.

Backing up data to disks will limit damage should trouble occur to your computer or should you inadvertently change or erase data.

• Use the security function for all important data. (Freeerence "Security Measures")

* Windows 2000): This computer uses Microsoft* Windows 2000 Professional.

(Windows XP): This computer uses Microsoft* Windows XP Professional.

-Hard-Disk-Lock-

When the Hard Disk Lock is set to [Enable], it is impossible to read/write data from/to the hard disk when the hard disk is installed in a different computer, since a password is also set for the hard disk. When the hard disk is returned to the original computer, you can read/write data as before. In this case, however, make the settings in the Setup Utility exactly the same as they were before the hard disk was removed. (Note that this Hard Disk Lock does not guarantee the complete protection of data.) (**Reference**Csecurity Measures**)

Saving Data on Disks

 Do not power off your computer or press the floppy disk drive eject button while the floppy disk drive being accessed.

Doing so may damage the data on the floppy disk and render the floppy disk useless.

Use care when handling floppy disks.

To protect the data on your floppy disks or to prevent a floppy disk from becoming stuck in your computer, avoid the following:

- Sliding the shutter on the floppy disk manually.
- Exposing the disk to a magnetic field.
- Storing the disk in locations prone to high temperatures, low pitched noise, dampness, or dust.
- · Applying more than one label on the disk.
- Confirm the contents of a floppy disk before formatting it.

Confirm that no important data is on the floppy disk, because all data on the floppy disk will be erased.

• Use the write-protect tab.

This is a must for preserving important data. This prevents your data from being erased or overwritten.



Write-protect Tab

Write Disable

Computer Viruses

- Users are advised to purchase the latest versions of virus protection software and use them regularly.
 We recommend you run the software:
 - · When booting your computer.
 - After receiving data.

We recommend that you check data received on disks or from external sources, such as data downloaded from the Internet, e-mail, etc. (For compressed files, uncompress them before running a check).

When Disposing of or Transferring Ownership of This Device

When disposing of or transferring ownership of this device, completely erase all data on the hard disk in order to prevent loss of hard disk data. Even if you delete data or initialize the hard disk through normal Windows commands, data can still be read using special software. In order to completely erase data, either have the data erased by a specialist (at a charge) or use special software (sold separately).

Also note that transferring ownership of this device without deleting software from the hard disk may violate software user's licenses.

Read Me First

Usage Environment

Environment

• Place the computer on a flat stable surface.

• In use: Temperature: 5 °C to 35 °C {41 °F to 95 °F}

Humidity: 30% to 80% RH (No condensation)

Not in use: Temperature: -20 °C to 60 °C {-4 °F to 140 °F}

Humidity: 30% to 90% RH (No condensation)

Places not to use your computer

Such areas may result in damage to the computer.

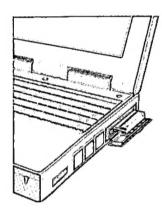
Areas with electronic equipment

These areas may interfere with your display or cause your computer to produce strange sounds.

Areas with extremely high/low temperatures

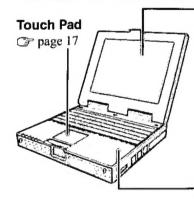
• Do not leave things near the computer that are sensitive to heat. During operation, the computer may become warm.

Handling



- This computer has been designed so as to minimize shock to the LCD and hard disk drive, etc., but no warranty is provided against such trouble. Therefore, as a precision instrument, be extremely careful in the handling.
- Do not drop or hit your computer against solid objects.
- Do not carry your computer when it is on.
- Remove all external devices and cables, and PC Cards sticking out of the computer (see the figure on the left) before transporting the computer.
- We recommend preparing a fully charged battery.
 When transporting space batteries inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Do not place the computer upright or allow it to tip over. When the computer receives extremely strong shock after falling, the hard disk or floppy disk drive, etc., may become inoperable.
- Do not carry the computer while the display is open, or carry it by gripping the display.
- Do not put anything (e.g., a piece of paper) between the display and keyboard.
- Always carry your computer with you. Never check it in with luggage. For use of the computer inside an aircraft, we recommend asking the airlines regarding their policy on this issue.
- It is a good idea to make backup copies on disks and carry them with you.
- Do not leave a disk in the drive while transporting your computer.

Maintenance



Display

Use the soft cloth included with the computer. (For more information, refer to "Suggestions About Cleaning the LCD Surface" that comes with the soft cloth.)

If the Protective Film becomes dirty or damaged, it may be time to replace your Protective Film. The Protective Film is a disposable item. To find out the model number of your Protective Film, contact Panasonic Technical Support. (For more information, refer to the "Operating Instructions" that come with the Protective Film.)

CAUTION

Do not touch or use a touchscreen before you re-attach a Protective Film, as you may leave a mark or a scratch on the touchscreen.

Areas excluding the display

Wipe these areas with a soft cloth, after applying water or detergent diluted with water to the soft cloth and firmly wringing out excess water.

CAUTION

- Do not use benzene, thinner, or rubbing alcohol. Doing so may adversely affect the surface, e.g., discoloration.
 In addition, do not use commercially-available household cleaners and cosmetics, as they may contain components harmful to the surface.
- Do not directly add or spray water or detergent. If liquid enters the inside of the computer, it may cause it to work improperly or be damaged.

First-time Operation

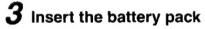
Read the steps below to help you learn what parts are included, and to gain an understanding of some basic computer-related operations.

1 Confirm the inclusion of all parts

Make sure the parts shown in the figure have been supplied. If any of these items are missing or is not working properly, contact Panasonic Technical Support.

AC adaptor1	AC Cord1	Battery Pack1
Model No : CF-AA1653		Model No :CF-VZSU15A
Modem Telephone Cable1	Soft Cloth1	Stylus1
		(Reference "Touchscreen")
Strap1	Product Recovery CD-ROM	
(Accessories")		Operating Instructions (This book)

2 Read the LIMITED USE LICENSE AGREEMENT (page 26)
Before removing the seal covering the power switch, read the LIMITED USE LICENSE AGREEMENT.



- 1 Turn your computer over.
- ② Unlock the latch.
- 3 Open the cover.
- 4 Put a battery pack into the computer.

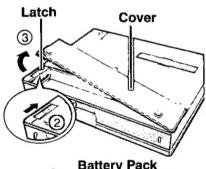
CAUTION

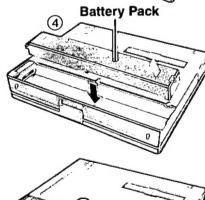
Do not touch the terminals on the battery pack and the computer. The battery pack may no longer function properly if the contacts are dirty or damaged. Also, the computer may not operate properly.

5 Slide the battery pack inward until it is firmly in place.



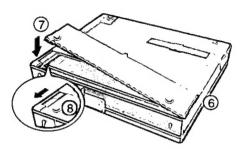
Be sure the battery pack is properly connected to the connector.







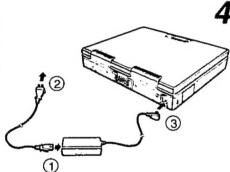
First-time Operation



- 6 The cover is closed by inserting the hook at the right end (see illustration) into the groove.
- (7) Close the cover.
- (8) Lock the latch into place.

CAUTION

Confirm that the latch lock is correctly in place. Should you decide to carry your computer without the latch lock in place, the cover may open causing the battery pack to fall out.



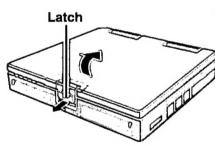
4 Connect your computer to a power outlet

CAUTION

- Be sure the AC adaptor is connected until completing Step 8 on page 11.
- When using the computer for the first time, do not connect any peripheral device except the battery pack and AC adaptor to the computer.

Handling the AC adaptor

- Do not twist or pull the AC power cord forcefully. Doing so may damage the connections.
- Use only the specified AC adaptor with your computer. Using an AC adaptor other than the one supplied might damage the battery and/or the computer.
- When the DC plug is not connected to the computer, disconnect the AC cord from your AC wall outlet.
- Problems such as sudden voltage drops may arise during periods of thunder and lightning. Since this could adversely affect your computer, an uninterruptible power source (UPS) is highly recommended unless the battery pack is installed.

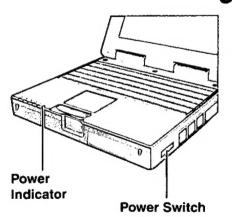


5 Open the display

- 1 Lift up the latch.
- (2) Lift open the display.

6 Turn your computer on

Slide the power switch and hold it for approximately one second until the power indicator (3) turns on before releasing it.



CAUTION

Once the computer is powered off, you must wait at least ten seconds before powering it on again.

7 Select the Operating System

Windows 2000 and Windows XP are preinstalled on this computer. After one of them is selected with the following procedure, only that Operating System can be used.

- (1) At the screen for the agreement of the selection of the Operating System, select [Y].
- (2) With the number keys, select either Windows 2000 or Windows XP.

 (The selection of the Operating System is only performed the first time the computer is started up. A change cannot be made after the selection.)
- (3) At the confirmation message, select [Y]. The Operating System preparation will start, during which the computer will restart.

CAUTION

Do not touch the keyboard. If you accidentally touch the keyboard and the cancel confirmation menu is displayed, do not cancel.

When the screen indicating the completion of the Operating System preparation is displayed, press any key. The computer will restart.

8 Setup Windows

Moving the cursor $(\c Q)$ or clicking buttons can be performed with the touch pad.

Windows 2000)

CAUTION

Do not press any key or move the touch pad until [Windows 2000 Professional Setup] is displayed.

NOTE

For models with wireless LAN (CF-WWL341)

It is not necessary to carry out (22) - (23) in step 8 of "First-time Operation" in the Supplementary Instructions for wireless LAN.

- 1 At the [Welcome to the Windows 2000 Setup Wizard], select [Next].
- ② After reading the agreement, select [I accept this agreement] or [I don't accept this agreement], then select [Next].

NOTE

If [I don't accept this agreement] is selected, the Windows setup will be aborted.

- 3 Select settings for your region, then select [Next].
- (4) Enter your name and organization and select [Next].
- (5) Enter your computer name and administrator password and select [Next].

CAUTION

Remember this password! If the password is forgotten, Windows 2000 cannot be operated.

- 6 Enter the correct date, time and time zone and select [Next]. You can also complete these settings at a later time.
- 7 At the [Networking Settings], select [Typical settings], then select [Next].
- (8) At the [Workgroup or Computer Domain], select [No, this computer is not on a network, or is on a network without a domain], then select [Next]. The computer will restart.
- (9) At the [Welcome to the Network Identification Wizard], select [Next].
- 10 At the [Users of This Computer], select [Users must enter a user name and password to use this computer], then select [Next].
- (11) Select [Finish].
- (12) Enter your administrator password and select [OK].

First-time Operation

Windows XP

CAUTION

Do not press any key or move the touch pad until [Windows XP Professional Setup] is displayed.

- 1 At the [Welcome to the Windows XP Setup Wizard], select [Next].
- ② After reading the agreement, select [I accept this agreement] or [I don't accept this agreement], then select [Next].

NOTE

If [I don't accept this agreement] is selected, the Windows setup will be aborted.

- 3 Select settings for your region, then select [Next].
- 4 Enter your name and organization and then select [Next].
- (5) Enter your computer name and administrator password and then select [Next].

CAUTION

Remember this password! If the password is forgotten, Windows XP cannot be operated. If you forgot the password, refer to "Resetting the password" (below).

- (6) Enter the correct date and time, then select [Next]. You can also complete these settings at a later time.
- 7 At the [Networking Settings], select [Typical settings], then select [Next].
- (8) At the [Workgroup or Computer Domain], select [No, this computer is not on a network, or is on a network without a domain], then select [Next].
 The computer will restart.
- (9) Enter your administrator password and select ₹3.

-Information-for-Windows-XP-Windows-XP-

 You can select Classic view for the Control Panel or select the Classic Start menu. You can also change the way a user logs on or off.

The procedure in this manual uses the method or view of the Windows XP default setting (not Classic view or Classic Start menu etc.).

• Resetting the password

Windows XP has a function to reset a forgotten password.

To use this function, you need to create a password reset disk beforehand following the steps below.

- 1 Select [Start] [Control Panel] [User Accounts] and select the account you used to logon.
- 2 Select [Prevent a forgotten password] from the [Related Tasks] menu and create a password reset disk following the on-screen instructions.
 - · Store the password reset disk in a safe place.
 - Only the logon password for each account can be reset.
 The password set in the Setup Utility cannot be reset.

Recovery Console

If you install the Recovery Console, you can use the command prompt to execute operations such as CHKDSK in cases where, for example, Windows XP will not start. Use the following procedure to install Recovery Console. This procedure allows you to select Recovery Console as a startup option during startup.

- 1 Select [Start] [Run] and [c:\Windows\i386\winnt32.exe /cmdcons], then select [OK]. Follow the on-screen instructions.
- 2 Select [Start] [Run] and [c:\util\msupdate\q308402\Q308402_WXP_SP1_X86_ENU.EXE], then select [OK]. Follow the on-screen instructions.

NOTE

For an overview of Recovery Console, refer to [Help and Support].

- 1 Select [Start] [Help and Support].
- 2 Enter "Recovery Console" under [Search], then select .

Create BACKUP Disks for Reinstallation

- 1) Power off your computer (Page 16) Do not shut down using the standby or hibernation mode.
- (2) Connect the external floppy disk drive to your computer.

NOTE

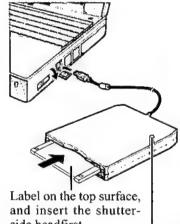
The floppy disk drive must be the A drive.

- (3) Turn on your computer.
- (4) Prepare 2HD floppy disks and make sure they are not in the write-protected state, and then set it.
- (Windows 2000)

Select [Start] - [Programs] - [Panasonic] - [Create Backup Disk] and follow the on-screen instructions.

Windows XP

Select [Start] - [All Programs] - [Panasonic] - [Create Backup Disk] and follow the on-screen instructions.



side headfirst.

(6) Place a label identifying the contents on each disk.

USB Floppy Disk Drive

Name of created backup disk

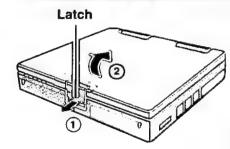
(When the display for creating the UPDATE FD is shown, create the FIRSTAID FD disk by following the on-screen instructions.)

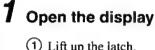
CAUTION

- Store the floppy disks in a safe place. They will enable you to return your computer to close to the condition at the time of purchase should any problems occur. When creating backup disks, do not run any other application program.
- When creating backup disks and the message [Insufficient files to copy] is displayed, select [OK] and then contact Panasonic Technical Support.
- While the floppy disk drive indicator is on, do not remove the floppy disk, power down your computer or use the standby or hibernation function (Reference "Standby/Hibernation Functions").
- Be sure to create the backup disk. If a backup disk is not created, it will be impossible to return the computer to its original state. In this case, contact Panasonic Technical Support.

Starting Up/Shutting Down

Starting Up

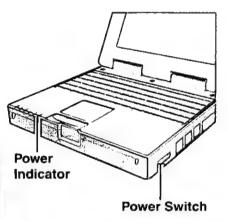




- 1 Lift up the latch.
- (2) Lift open the display.

Turn your computer on

Slide the power switch and hold it for approximately one second until the power indicator turns on before releasing it.



CAUTION

- After confirming that the power indicator has turned on, avoid the following until Windows has completed loading.
 - · Connecting or disconnecting the AC adaptor.
 - · Touching the power switch.
 - · Performing any keyboard, touch pad, touchscreen (or external mouse) operations.
 - Closing the display.
- Once the computer is powered off, you must wait at least ten seconds before powering it on again.
- When the CPU temperature rises, the computer may not power on to prevent the CPU from overheating. Should this happen, allow the computer to cool down then switch the power on again.

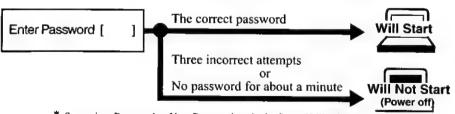
If the computer still does not power on, contact Panasonic Technical Support.

NOTE

When the power is turned on, sometimes the message "Warming up the system" is displayed or the battery indicator alternately blinks green and orange, and start-up takes longer than usual (a few minutes or more). This function is designed to prevent hard disk drive malfunctions that may occur at low temperatures. Please wait for the computer to start up.

If [Enter Password] is displayed.

Enter your password* and press Enter . (Reference "Security Measures")



- Supervisor Password or User Password set in the Setup Utility (not the Windows password).
- When an application or file that was previously displayed appears on your screen,

the standby or hibernation function (Reference "Standby/Hibernation Functions") has been set.

$oldsymbol{3}$ Log on to Windows

Windows 2000

Wait for 10 seconds after confirming that the hard disk drive access has been completed, input the user name and password, then select [OK]. Until the correct user name and password are entered, the computer will not operate.

Windows XP

Wait for 10 seconds after confirming that the hard disk access has been completed, select the user and input the password, then select . Until the correct password entered the computer will not operate.

4 Select your application

You are able to start working on your computer.

NOTE

• The power saving function is factory set, so if there is no input from a key, the touch pad, touchscreen or an external mouse (when one is connected) for a certain interval of time, the power to the LCD and hard disk may be turned off. The LCD will resume operation when the touch pad, touchscreen or an external mouse (when one is connected) is used or a key is pressed.

The power to the LCD may be turned off while Windows is setting up or even when an application software is being installed. In this case, because it is conceivable that a selection dialog box will be shown, do not press **Space** or **Enter** to attempt to resume from this condition as doing so may trigger a selection, but instead, press a key unrelated to the direct triggering of a selection, like **Ctrl**.

In addition, when the computer is left alone, it automatically enters the standby or hibernation mode ("Standby/Hibernation Functions"). The computer will resume by sliding the power switch.

Windows 2000

When a new device has been installed or a new Windows Component has been added in [Start] - [Settings] - [Control Panel] - [Add/Remove Programs], [Insert Disk] may appear. Select [OK] and specify [c:\winnt\cdimage] in place of [c:\sysprep\i386] or [D:], then select [OK].

e.g. [c:\winnt\cdimage\i386] in place of [D:\i386]

(Windows XP)

- When you create the first new account, you can only select [computer administrator]. Only the added user account will be displayed in the Welcome screen. The account for the administrator created during Windows setup (when the computer is started up for the first time) will not be displayed.
- When switching to a different user with the Fast User Switching function, it may not be possible to set the settings of the display. In this case, log on with the administrator authority again, not using the Fast User Switching function, and try the operation once more.

Usage Example



The hand strap is convenient for computing while standing.

Adjust the length of the belt so that the computer does not fall by mistake, and firmly hold the computer when using it.

CAUTION

Do not add a lot of weight to the hand strap.

The hand strap may accidentally come loose from the computer.

Starting Up/Shutting Down

Shutting Down (power off your computer)

This procedure is shutting down without using the standby or hibernation function. (Reference "Standby/Hibernation Functions")

7 Save important data and close each application

$oldsymbol{2}$ Display the shut down screen

Windows 2000

Select [Start] - [Shut Down].

Windows XP

Select [Start] - [Turn Off Computer].

NOTE

From the keyboard,

You may choose to press down on (), then select the menu with () or ()



$oldsymbol{3}$ Confirm shut down

Windows 2000

Select [Shut down], then select [OK].

Windows XP

Select [Turn Off].

Your computer will power off automatically.

Restarting your computer (without shutting down)

Windows 2000

Select [Restart], then select [OK].

Windows XP

Select [Restart].

CAUTION

Do not do the following during the closing procedure.

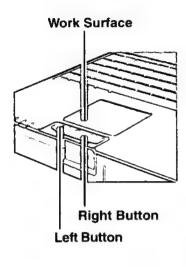
- · Connecting or disconnecting the AC adaptor.
- Touching the power switch.
- · Performing any keyboard, touch pad, touchscreen (or external mouse) operations.
- Closing the display.

NOTE

To quickly resume computer operation after shutting down,

The standby or hibernation function is available. (Reference "Standby/Hibernation Functions")

Touch Pad (Basic Operation)



Use the touch pad to move the cursor on the display and perform normal computer operations. For instructions on how to operate, refer to Reference "Touch Pad (Advanced)".

NOTE

The touch pad has been designed to work only when a finger is used. Therefore, do not use any implement on the touch pad.

-Basic-Operation

Function	Touch Pad Operation
Moving the Cursor	Move the tip of your finger lightly over the surface.
Tapping/Clicking	or Clicking
Double-Tapping/ Double-Clicking	double-tapping double-clicking
Dragging	Two quick taps, but on the second tap leaving your finger down (applying pressure) and moving it on the work surface. While holding down the button, moving your finger on the work surface.

_Handling-the-Touch-Pad-

- Do not place any object on the work surface or press down forcefully with sharp-pointed objects (e.g., nails) or hard objects that can leave marks (e.g., pencils and ball point pens).
- Do not allow things that could dirty the touch pad, such as oil. The cursor may not work properly in such cases.
- When the touch pad becomes dirty:
 Wipe to remove dirty areas by using a dry soft cloth such as gauze or a soft cloth first applied with detergent diluted with water and then thoroughly wrung.
 Do not use benzene, thinner, or disinfectant-type alcohol.

Reference Manual

The Reference Manual can be accessed on your computer. When a printer is connected, the Reference Manual can also be printed. This manual explains functions for you to make greater use of the computer, such as how to add peripheral devices, how the Setup Utility works and other useful information.

-Run-the-Reference-Manual⊣

1 Turn your computer on

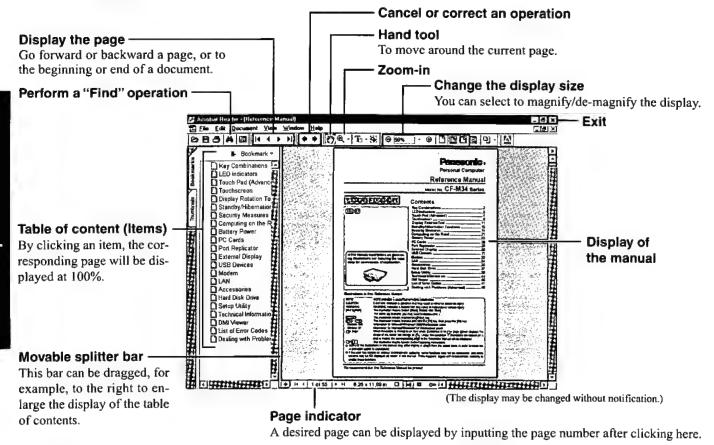
2 (Windows 2000)

Select [Reference Manual] in [Start] - [Programs] - [Panasonic] - [On-Line Manuals]

Windows XP

Select [Reference Manual] in [Start] - [All Programs] - [Panasonic] - [On-Line Manuals]

When the Reference Manual is started up for the first time, the License Agreement of the Acrobat Reader will be displayed. After reading the agreement, select [Accept] to access the Reference Manual.



NOTE

- Illustrations may be difficult to view depending on the magnification. If this is the case, we recommend that the display be magnified.
- The characters in PDF files (such as the Reference Manual) may be difficult to read depending on the Acrobat Reader settings and the Windows Desktop settings. In such cases, change the Acrobat Reader settings with the following procedure.
 Start up Acrobat Reader.
 - 2 Select [Edit] [Preferences] [Accessibility], and then set [Color Scheme] to [Use colors specified in document].
- When the taskbar is hidden at the bottom portion of Acrobat Reader, set the maximum display window size.
- If a printer is connected, we recommend printing pages. The illustrations and display samples may not print with a high quality.

Windows XP

 When switching to a different user with the Fast User Switching function, PDF files may not be printed properly. In this case, log on with the administrator authority again, not using the Fast User Switching function, and try the operation once more.

List of Error Codes

The following is a list of the messages that BIOS can display. Most of them occur during POST. Some of them display information about a hardware device, e.g., the amount of memory installed. Others may indicate a problem with a device, such as the way it has been configured. Following the list are explanations of the messages and remedies for reported problems.

If your system displays one of except the messages marked below with an asterisk (*), write down the message and contact Panasonic Technical Support. If your system fails after you make changes in the Setup menus, reset the computer, enter Setup and install Setup defaults or correct the error.

0200 Failure Fixed Disk

Fixed disk in not working or not configured properly. Check to see if fixed disk is attached properly. Run Setup. Find out if the fixed-disk type is correctly identified.

0210 Stuck key

Stuck key on keyboard.

0211 Keyboard error

Keyboard not working.

0212 Keyboard Controller Failed

Keyboard controller failed test. May require replacing keyboard controller.

0213 Keyboard locked - Unlock key switch

Unlock the system to proceed.

0230 System RAM Failed at offset: nnnn

System RAM failed at offset nnnn of in the 64k block at which the error was detected.

0231 Shadow RAM Failed at offset: nnnn

Shadow RAM failed at offset nnnn of the 64k block at which the error was detected.

0232 Extended RAM Failed at offset: nnnn

Extended memory not working or not configured properly at offset nnnn.

0250 System battery is dead - Replace and run SETUP

The CMOS clock battery indicator shows the battery is dead. Replace the battery and run Setup to reconfigure the system.

*0251 System CMOS checksum bad - Default configuration used

System CMOS has been corrupted or modified incorrectly, perhaps by an application program that changes data stored in CMOS. The BIOS installed Default SETUP Values. If you do not want these values, enter Setup and enter your own values. If the error persists, check the system battery or contact Panasonic Technical Support.

0260 System timer error

The timer test failed. Requires repair of system board.

0270 Real time clock error

Real-time clock fails BIOS test. May require board repair.

0271 Check date and time settings

Real-time clock is illegal. Run Setup and set the date and clock.

*0280 Previous boot incomplete - Default configuration used

Previous POST did not complete successfully. POST loads default values and offers to run Setup. If the failure was caused by incorrect values and they are not corrected, the next boot will likely fail. On systems with control of wait states, improper Setup settings can also terminate POST and cause this error on the next boot. Run Setup and verify that the wait-state configuration is correct. This error is cleared the next time the system is booted.

0281 Memory Size found by POST differed from CMOS

Memory size found by POST differed from CMOS.

02D0 System cache error - Cache disabled

02D1 System Memory exceeds the CPU's caching limit

Contact Panasonic Technical Support.

List of Error Codes

02F5 DMA Test Failed

Cannot write to extended DMA (Direct Memory Access) registers.

02F6 Software NMI Failed

Cannot generate software NMI (Non-Maskable Interrupt).

02F7 Fail - Safe Timer NMI Failed

Fail-Safe Timer takes too long.

device address Conflict

Address conflict for specified device.

Allocation Error for: device

Run ISA or EISA Configuration Utility to resolve resource conflict for the specified device.

Hardware Configuration changed

The display appears when there is a change in the hardware. This display only occurs one time.

Entering SETUP ...

Starting Setup Utility.

Failing Bits: nnnn

The hex number nnnn is a map of the bits at the RAM address which failed the memory test. Each I (one) in the map indicates a failed bit. See error 230,231 or 232 for offset address of the failure in System, Extended or Shadow memory.

Fixed Disk n

Fixed disk n (0-3) identified.

Invalid System Configuration Data

Problem with NVRAM (CMOS) data.

I/O device IRQ conflict

I/O device IRQ conflict error.

PS/2 Mouse Boot Summary Screen:

PS/2 Mouse installed.

nnnn kB Extended RAM Passed

Where nnnn is the amount of RAM in kilobytes successfully tested.

nnnn Cache SRAM Passed

Where nnnn is the amount of system cache in kilobytes successfully tested.

nnnn kB Shadow RAM Passed

Where nnnn is the amount of shadow RAM in kilobytes successfully tested.

nnnn kB System RAM Passed

Where nnnn is the amount of system RAM in kilobytes successfully tested.

Operating System not found

Operating system cannot be located on either drive A: or drive C:. Enter Setup and see if fixed disk and drive A: are properly identified.

Parity Check 1 nnnn

Parity error found in the system bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ????. Parity is a method for checking errors in binary data. A parity error indicates that some data has been corrupted.

Parity Check 2 nnnn

Parity error found in the I/O bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ?????.

Press <F1> to resume, <F2> to Setup

Displayed after any recoverable error message. Press <F1> to start the boot process or <F2> to enter a Setup and change the settings. Write down and follow the information shown on the screen.

Press <F2> to enter Setup

Optional message displayed during POST. Can be turned off in Setup.

PS/2 Mouse:

PS/2 mouse identified.

System BIOS shadowed

System BIOS copied to shadow RAM.

UMB upper limit segment address: nnnn

Displays the address nnnn of the upper limit of Upper Memory Blocks, indicating released segments of the BIOS which can be reclaimed by a virtual memory manager.

Video BIOS shadowed

Video BIOS successfully copied to shadow RAM.

Dealing with Problems (Summary)

When a problem occurs, refer to this page. The "Reference Manual" also contains detailed information. If a problem appears to be related to a software application, read the software related manual. If you still cannot troubleshoot the problem, contact Panasonic Technical Support.

Starting Up

Starting Up	
The power indicator or bat- tery indicator is not lit	 Check the cable connection for the AC adaptor. Check to see if a fully charged battery is properly installed. Remove the battery pack and disconnect the AC adaptor, then connect them again.
[Enter Password] is dis- played	Input your password. If you have forgotten it, contact Panasonic Technical Support.
POST Startup Error(s) is displayed	page 19
Windows startup, or an op- eration is extremely slow	Press F9 in the Setup Utility (Reference "Setup Utility"). This will restore the Setup Utility's settings to their default values (except the password settings). Then, the Setup Utility must be run once again for you to input the appropriate operating environment settings. (The processing speed depends on the application software used, so this operation may not cause the processing speed to increase.)
The date and time are incorrect	 You can set the date and time using the following menu. Windows 2000 : [Control Panel] - [Date/Time] Windows XP : [Control Panel] - [Date, Time, Language, and Regional Options] - [Date and Time] When the computer is connected to a LAN, confirm the date and time of the server. If you continue to experience problems, the internal battery maintaining the clock may need to be replaced. Contact Panasonic Technical Support. This computer will not correctly recognize the date and time starting from the year 2100 A.D.
When resuming from the standby or hibernation mode, [Enter Password] does not appear even if a password has been set in the Setup Utility	Use the Windows password as follows: (Windows 2000) Set the password in [Control Panel] - [Users and Passwords], then add the check mark for [Prompt for password when computer goes off standby] in [Control Panel] - [Power Options] - [Advanced]. (Windows XP) Select the account to change in [Control Panel] - [User Accounts] and set the password, then add the check mark for [Prompt for password when computer resumes from standby] in [Control Panel] - [Performance and Maintenance] - [Power Options] - [Advanced].
When the administrator password is forgotten	After reinstalling, setup Windows and then set the password again. WindowsXP If you have created a password reset disk (page 12), a message is displayed when you fail to correctly enter the password. Follow the message's instructions and set the password again by using the password reset disk. If you have not created a password reset disk, after reinstalling, setup Windows and then set the password again.
When the previous item is not the cause	 Press F9 in the Setup Utility (Reference "Setup Utility"). This will restore the Setup Utility's settings to their default values (except the password settings). Try removing all peripheral devices. Windows 2000 Click [Local Disk(C:)] in [My Computer] with the right button, select [Properties], then select [Tools] - [Check Now]. Windows XP Click [Local Disk(C:)] in [Start] - [My Computer] with the right button, select [Properties], then select [Tools] - [Check Now]. At start-up, press F8 to operate the computer in the Safe mode.

(To next page)

Dealing with Problems (Summary)

Starting Up

The computer cannot start	The computer may not start up from your LAN, even if [LAN] is set prior to other devices in
up from a LAN	the Setup Utility.
	When this problem occurs, start up Windows by one of the following procedures.
	• Press Esc while [Press F2 to enter SETUP] is displayed, and then select [LAN] from
1	the Boot First Menu.
	• Press F12 while [Press F2 to enter SETUP] is displayed.

Display

No display after powering on	 When there is no display to an external display, Check your cable connection to the external display. Confirm your display is powered on. Check the settings for your external display. Try changing the display by pressing Fn + F3. When displaying only through an external display, if the computer is shut down by using the standby or hibernation function, there may be no display on the LCD unless the external display is connected when operations are resumed. In this case, connect the external display or press Fn + F3.
The power has not been turned off, but after a cer- tain period of time, there is no display	 Has the computer been set to the power-saving mode? To resume operation of your computer from the condition the power of the display is off (for energy conservation purposes), press any key unrelated to the direct triggering of a selection, like Shift. To save power, your computer may have automatically entered the standby or hibernation mode. (Computing On the Road") Press the power switch. Did you repeatedly and continuously press Fn + F3? Before holding down Fn + F3 continuously, make sure the active display has been completely switched.
The cursor cannot be controlled	Restart the computer by using the keyboard (e.g., 1).
An afterimage appears (e.g., green, red, and blue dots remain on the display) or there are dots not displaying the correct colors.	 If an image is displayed for a prolonged period of time, an afterimage may appear. This is not a malfunction. The afterimage will disappear when a different screen is displayed. High-precision and advanced technologies are necessary in the production of color liquid crystal displays (color LCDs). Therefore, if 0.002% or less of the picture elements either fail to light or remain constantly lit (that is, more than 99.998% of elements are functioning properly), no defect is considered to exist.
The external display no longer displays properly	When an external display not compatible with the power saving mode is used with the computer, the external display may no longer display properly when the computer enters the condition the power of the display is OFF (for energy conservation purposes). In such cases, turn off the power to the external display.
The screen becomes disor- dered	Changing the number of colors of the display may affect the screen. Restart the computer.
Resolution or the number of colors of the display changes	After the display destination of the screen is switched with Fn+F3, the resolution or number of colors of the display may change. Set the display again.
During simultaneous dis- play*, the screen of the ex- ternal display becomes dis- ordered	 Try changing the display by pressing Fn + F3. If you continue to experience problems, try changing the display in the following menu. Windows 2000 : [Start] - [Settings] - [Control Panel] - [Intel® Graphics Technology]. Windows XP : [Start] - [Control Panel] - [Appearance and Themes] - [Display] - [Settings] - [Advanced] - [Intel® Graphics Technology].
When setting the screensaver, an error may occur during a resume operation	When the computer enters the standby or hibernation mode while the screensaver is running, an error may occur during a resume operation. In such cases, turn off the screensaver or try changing the pattern of the screensaver.

* To display the same screen on both the internal LCD and external display: Simultaneous display = Intel (R) Dual Display Clone in [Intel (R) Extreme Graphics Controller Properties]

Shutting down

Windows cannot be shut	Do not shut down Windows during music playback.
down or restarted	If a USB device is connected, try removing it.

Battery Indicator

The red indicator lights. Repeated beeping sound while the computer is in use.		
The red indicator blinks	 The battery pack or recharging function may be defective. Quickly remove the battery pack and disconnect the AC adaptor, then connect them again. If the problem persists, contact Panasonic Technical Support. 	
The orange indicator blinks	Unable to charge because of an improper temperature range. (page 6)	
The green indicator blinks	Battery pack is discharging to 65% or below in high temperature mode.	
The battery indicator blinks green and orange alternately	Warming up the system to prevent hard disk drive malfunctions at low temperature.	

Others

Computer hangs	 Press Ctrl + Ait + Del to open Task Manager and close the software application which is not responding.
	 After cutting the power by sliding the power switch for more than four seconds, slide the power switch to power on and open the application again.
	If the program no longer works normally, delete the program using the following menu. Then reinstall the program.
	Windows 2000): [Control Panel] - [Add/Remove Programs]
	Windows XP : [Control Panel] - [Add or Remove Programs]
	● (Windows)XP)
	When switching to a different user with the Fast User Switching function, some applica-
	tions may not work properly. In this case, log off then log on with administrator authority again and try the operation once more.

Reference Manual

The Reference Manual is not displayed	If Acrobat Reader is not installed, run [c:\util\reader\ar505enu.exe] in [Start] - [Run] to reinstall the program. When installing the program, do not change the installation destina-
	tion folder. If the destination folder is changed, the Reference Manual cannot be opened from the [Start] menu.

● Fast User Switching Function WindowsXP

Some applications do not work properly	When switching to a different user with the Fast User Switching function, the follow problems may occur.			
	• Some applications may not work properly (for example, PDF files may not be printed properly).			
	• Key combinations with Fn may not work.			
	• It may not be possible to set the settings of the display.			
1	A serial mouse may not work.			
i .	If any of the above occur, log on with the administrator authority again, not using the Fast			
	User Switching function, and try the operation once more.			

Reinstalling Software

Before Reinstallation

Preparing

- BACKUP DISK(s) created in advance (page 13)
- Product Recovery CD-ROM (included)
- External floppy disk drive (optional CF-VFDU03)
- CD-ROM drive Panasonic KXL-RW10A (PC Card-compatible) or KXL-RW21A (USB)
 When using a PC Card-compatible CD-ROM drive other than the Panasonic KXL-RW10A CD-ROM drive: page 25

NOTE

If you have not created the FIRSTAID FD, you can create by using the following menu.

(Windows 2000) : [Create Backup Disk] in [Start] - [Programs] - [Panasonic].
(Windows XP) : [Create Backup Disk] in [Start] - [All Programs] - [Panasonic].

If you can not create this disk, contact Panasonic Technical Support.

Important

- Save all important data. If reinstallation is carried out, all data existing prior to the installation will be lost. The reinstallation will return the computer to the conditions at time of purchase.
- Before the reinstallation procedure, remove all peripherals (except for the CD-ROM and floppy disk drive).
- Be sure the AC adaptor is connected until the reinstallation procedure is completed.
- When using the Panasonic KXL-RW10A CD-ROM drive, set the switch of the PC Card to 16-bit.

Reinstalling

COMMON

- If data on your hard disk is compressed, the data should be uncompressed.
- For users intending to change the partitioning of the hard disk:
 - When reinstalling Windows in the first partition, be sure to create several partitions in advance.
 If several partitions have not been created, all disk space, including space that has not been partitioned, will be allocated to the C drive (the same condition at the time of purchase).
 - Do not use the FDISK program that comes as a standard with Windows 95, Windows 98, and Windows 98 Second Edition, as this has been shown to result in an error in the partitioning settings. The following FDISK programs will enable the correct settings:
 - FDISK program that comes as a standard with Windows Me
 - Windows 98 and Windows 98 Second Edition FDISK programs for hard disks that is larger than 64 GB in size*
 - *A patch for correcting the bug in the standard FDISK program has been made available as a free download. For details, please refer to the Microsoft Web Site.

- 1 Turn off the computer.
- 2 Connect the CD-ROM drive to the computer.
- 3 <Only when using the CD-ROM drive Panasonic KXL-RW10A>

Connect the floppy disk drive to the USB port of main unit, then set the FIRSTAID FD in the floppy disk drive.

- 4 Turn the computer on.
- 5 When the message [Press F2 to enter SETUP] is displayed, press F2 and then run the Setup Utility.
 If the password has been set, enter the supervisor password.
- Write down all of the contents of the Setup Utility and then press F9.
 At the confirmation message, select [Yes] and press

At the confirmation message, select [Yes] and press (Enter).

7 <Only when using the CD-ROM drive Panasonic KXL-RW21A>

Select [Boot] menu, press 1 / 1 and 5 / 6 until [CD Drive] is at the top of the [Boot] menu.

- 8 Set the Product Recovery CD-ROM1.
- 9 Press (**F10**).

At the confirmation message, select [Yes] and press **Enter**. The computer will reboot, and the License Agreement screen should appear. Select [1. Yes, I agree to the provisions above and wish to continue!].

10 At the screen for the selection of the OS, select either Windows 2000 or Windows XP.

You can reinstall only the initially selected OS.

11 This screen should appear.

Windows 20003

Select a number

- Restore the whole HDD to factory default
 Restore Windows(R) 2000 Professional to the first partition

(Windows XP)

Select a number

- Restore the whole HDD to factory default
 Restore Windows(R) XP Professional to the first partition

12 Make a selection from the menu.

To restore all contents of the hard disk to factory default, including the partition setting(s):

Select [1. Restore the whole HDD to factory default].

To reinstall Windows 2000/Windows XP to the first partition to factory default:

Select [2. Restore Windows(R) 2000 Professional (or Windows(R) XP Professional) to the first partition].

In such cases, the initial partition size must be 6 GB or more of the hard disk size. Reinstallation cannot be performed with a small partition size.

13 At the confirmation message, press Y.

The computer will reboot, and the operations of reinstallation for the hard disk start automatically. (The operations take about 20-30 minutes.)

When the message "insert the next CD" is displayed, insert the Product Recovery CD-ROM showing the next number in the sequence, and then select [OK].

(In the case of Windows 2000, only Product Recovery CD-ROMs 1 to 3 can be used.)

NOTE

If [OK] is not immediately selected:

The message "The media does not contain the correct file" may appear. When [OK] is selected, the message "insert the next CD" will be displayed again.

Confirm that the proper Product Recovery CD-ROM has been inserted by opening the tray of the CD drive and then close the tray, then immediately select [OK].

- 14 After the reinstallation procedure completes, press **Enter**). The computer will be shut down.
- 15 < Only when using the CD-ROM drive Panasonic KXL-RW10A>

Remove the FIRSTAID FD.

word.

- 16 Remove the CD-ROM drive, and then turn the computer on.
- 17 When the message [Press F2 to enter SETUP] is displayed, press (F2) and then run the Setup Utility. If the password has been set, enter the Supervisor Pass-

18 Press (F9).

At the confirmation message, select [Yes] and press Enter . (The Setup Utility settings will return to their default values. Even the security settings with the exception of the password(s) will return to their default values.) Change the settings where necessary.

19 Press (F10).

At the confirmation message, select [Yes] and press (Enter).

20 Perform the setup procedure for Windows by following the instructions on the screen.

Windows 2000 P page 11 Windows XP page 12

NOTE

in the readme.txt on the disk. (page 13)

When an UPDATE FD is to be created, follow the steps

<When using a PC Card-compatible CD-ROM drive other</p> than the Panasonic KXL-RW10A>

Copy the necessary drivers, from the floppy disk included with your CD-ROM drive, to the FIRSTAID FD with the method below. It will be necessary to edit the CONFIG.SYS file and AUTOEXEC.BAT file on the FIRSTAID FD. When editing the AUTOEXEC.BAT file. some CD-ROM drives require card managers (card and socket service). See the manual included with your CD-ROM drive for further details.

Start Windows and insert the FIRSTAID FD.

(Windows 2000) Select [Start]-[Programs]-[Accessories]-[Notepad]-[File]-[Open], input [a:\config.sys], then select [Open].

(Windows XP)

Select [Start]-[All Programs]-[Accessories]-[Notepad]-[File]-[Open], input [a:\config.sys], then select [Open].

(3) Rewrite the following line and save.

Delete the following four lines.

;KXL-RW10A DRIVER

DEVICE=A:\TOOLS\KMASMGRA.SYS

DEVICE=A:\TOOLS\KMASASPA.SYS

DEVICE=A:\TOOLS\KMASCDA.SYS /D:MSCD000

Add the driver of your CD-ROM drive. Device=A:\DRIVER1.SYS /D:MSCD000

> Rewrite this driver for the driver of your CD-ROM drive. The driver for the PC Card will also be necessary. Refer to the operation manual that accompanies the CD-ROM drive.

Save the file and close [Notepad].

- 4 Copy the CD-ROM driver file (i.e., the driver file rewritten in step (3)) of the CD-ROM drive below [a:\] of the FIRSTAID FD.
- Set the floppy disk to the write-protect state.

After this, follow the reinstalling procedure of <when using the CD-ROM drive Panasonic KXL-RW10A>. (page 24)

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Appendix

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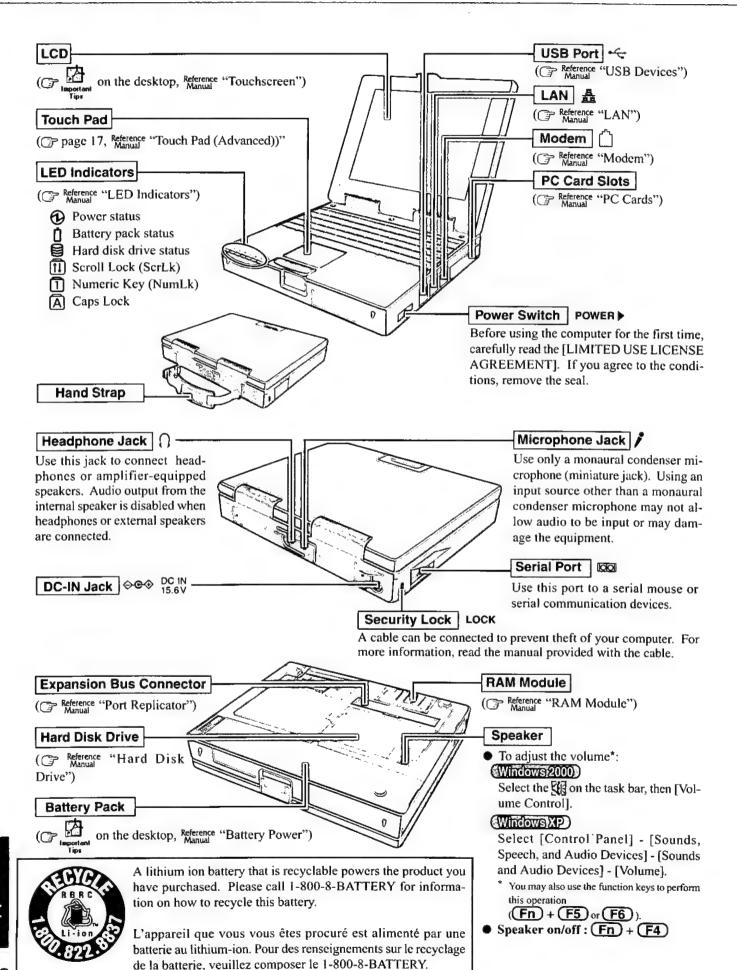
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Names and Functions of Parts



Specifications

Model No.	Model No.		CF-M34RHFZQM	CF-M34RTFZQM	
			Intel® Mobile Pentium® III Processor-M	800 MHz	
L1 Cache Memory			32 KB		
L2 (Second) Cache Memory		mory	512 KB		
Memory	·		256 MB (768 MB Max.)		
Video Mem	ory		UMA (48 MB Max.)	-	
LCD Type			8.4 " (TFT) 8.4 " (TFT) (Transflective)		
	Displayed Colors*1		256/65536/16M colors (640 x 480 dots/800 x 600 dots)		
External Display			256/65536/16M colors (640 x 480 dots/800 x 600 dots/1024x768 dots/1280x1024 dots)*2		
Hard Disk [Orive		30 GB*3		
Keyboard			Windows keyboard (87 keys)		
Pointing Device			Touch Pad Touchscreen (Anti-Reflection, Stylus (included) touch capable)		
PC Card Slot			Type I or Type II		
	Allowable	current	3.3 V: 400 mA, 5 V: 400 mA		
RAM Modu	le Slot		144-pin, SO-DIMM, 3.3 V, PC133 Compliant		
Serial Port			Dsub 9-pin Male		
	Microphon	e Jack*4	Miniature jack, 3.5 DIA		
Interface	Headphon	e Jack	Miniature jack, 3.5 DIA		
	USB Port		4-pin		
	Modem		RJ-11 Data:56 kbps (V.90 & K56flex*5) FAX:14.4 kbps		
	LAN		RJ 45 IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX		
Speaker			Monaural Speaker		
Sound			AC '97 2.1 Compatible, 18 bits full duplex stereo		
Battery Pac	ck		Li-ion 11.1 V, 4.0 Ah		
Оре	rating Time	*6	Approx. 3.2 - 4.8 h	Approx. 3.2 - 5 h	
Cha	rging Time*	⁶ Power On	Approx. 4 h		
		Power Off	Approx. 2.5 h		
Clo	ck Battery		Coin type lithium battery 3.0 V		
AC Adapto	r* ⁷		Input 100 V - 240 V AC, 50 Hz / 60 Hz	Output 15.6 V DC, 5.0 A	
Power Con	sumption*8		Approx. 18 W*9 / Approx. 41 W (maximum when recharging in the ON state)		
Software	Operating	System*10			
	Utility Prog	grams	Setup Utility, DMI Viewer		
Environment	1	Temperature	5 °C to 35 °C {41 °F to 95 °F}		
		Humidity	30% to 80% RH (No condensation)		
		Temperature			
		Humidity	30% to 90% RH (No condensation)		
			229 mm X 43 mm X 188 mm {9.0 " X 1.7 " X 7.4 "}		
Physical Di	111011010110	/			

- *1 A 16M color display on the LCD is achieved by using the dithering function. WindowsXP : A 256 color and 640 x 480 dots are not supported.
- *2 Maximum resolution depends on the specifications of the external display. (WindowsXP): A 256 color and 640 x 480 dots are not supported.
- *3 1GB = 109 bytes
- Use only a monaural condenser microphone (miniature jack).
- *5 The settings for the K56flex modern need to be changed according to the AT command.
- *6 Varies depending on the usage conditions.
- *7 The AC adaptor is compatible with power sources up to 240 V AC adaptor. This computer is supplied with a 125 V AC compatible AC cord.
- *8 Approx. 0.7 W when the battery pack is fully charged (or not being charged) and the computer is OFF.
- *9 Rated power consumption.
- *10 The set-up utilities for both Windows® 2000 and Windows® XP operating systems are preinstalled on this system.
 - When the system is initially started, you have the option of selecting operating system of your choice.
 - · Any operating system that was not selected initially will be deleted automatically.
- *11 The dimensions and weight do not include the hand strap.

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For U.S.A.

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GENERAL

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Outline of the International ENERGY STAR® Office Equipment Program

The international ENERGY STAR® Office Equipment Program is an international program that promotes energy saving through the use of computers and other office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption. It is an open system in which business proprietors can participate voluntarily. The targeted products are office equipment such as computers, displays, printers, facsimiles, and copiers. Their standards and logos are uniform among participating nations.

Panasonic Computer Solution Company

50 Meadowlands Parkway, Panazip 2F-5, Secaucus, NJ 07094 Panasonic Canada Inc.

5770 Ambler Drive Mississauga, Ontario L4W 2T3

